

(FILE 'USPAT' ENTERED AT 08:10:05 ON 10 DEC 1998)

L1 10 S 428/903.3/CCLS AND (PCR OR POST CONSUMER RECYCL?)
L2 124 S (PCR OR POST CONSUMER RECYCL?) (P) POLYETHYLENE
L3 54 S L2 AND POLYPROPYLENE
L4 54 FOCUS L3 1-
L5 3 S L2 AND (EVOH OR ETHYLENE VINYL ALCOHOL)
L6 11 S L2 AND FLUORIN? (P) POLYETHYLENE
L7 0 S 428/421/CCLS AND L2

=> file epo jpo

FILE 'EPO' ENTERED AT 08:22:55 ON 10 DEC 1998

FILE 'JPO' ENTERED AT 08:22:55 ON 10 DEC 1998

=> s 13

FILE 'EPO'

331 PCR
3 PCRS
334 PCR
(PCR OR PCRS)
16081 POST
6527 POSTS
20315 POST
(POST OR POSTS)
2655 CONSUMER
762 CONSUMERS
3158 CONSUMER
(CONSUMER OR CONSUMERS)
13814 RECYCL?
8 POST CONSUMER RECYCL?
(POST (W) CONSUMER (W) RECYCL?)
10579 POLYETHYLENE
147 POLYETHYLENES
10649 POLYETHYLENE
(POLYETHYLENE OR POLYETHYLENES)
5 (PCR OR POST CONSUMER RECYCL?) (P) POLYETHYLENE
5442 POLYPROPYLENE
73 POLYPROPYLENES
5487 POLYPROPYLENE
(POLYPROPYLENE OR POLYPROPYLENES)
1 L2 AND POLYPROPYLENE

FILE 'JPO'

667 PCR
5 PCRS
668 PCR
(PCR OR PCRS)
19767 POST
2924 POSTS
21485 POST
(POST OR POSTS)
681 CONSUMER
344 CONSUMERS
980 CONSUMER
(CONSUMER OR CONSUMERS)
8748 RECYCL?
0 POST CONSUMER RECYCL?
(POST (W) CONSUMER (W) RECYCL?)
37003 POLYETHYLENE
142 POLYETHYLENES
37050 POLYETHYLENE
(POLYETHYLENE OR POLYETHYLENES)
3 (PCR OR POST CONSUMER RECYCL?) (P) POLYETHYLENE
16379 POLYPROPYLENE
41 POLYPROPYLENES
16393 POLYPROPYLENE
(POLYPROPYLENE OR POLYPROPYLENES)
L9 1 L2 AND POLYPROPYLENE

TOTAL FOR ALL FILES

L10 2 L3

=> d 1-

1. WO009605110A2, Feb. 22, 1996, CONTAINER WITH RECYCLED PLASTIC; FEHN,
GREGORY M,
INT-CL: [6] B65D/
EUR-CL: B65D1/02

2. JP409099932A, Apr. 15, 1997, REACTOR; NAKAGAWA, YOSHIKAZU, et al.,
INT-CL: B65D1/09; B01J14/00
ADDITIONAL-INT-CL: B01L3/00; C12M1/00; C12Q1/68

=> d 2 ab

JP409099932A

L10: 2 of 2

ABSTRACT:

PROBLEM TO BE SOLVED: To facilitate a sealing operation in the case of reaction processing, in a reactor for use in the field relating to biochemistry such as genetic engineering, immunology, etc., by a method wherein a base material having at least one recess and a film are provided and the film is thermally bonded to or pressed to the base material to seal the recess.

SOLUTION: A reactor for use in the study in the field relating to biochemistry such as measurement of oxygen activity, nucleic amplification by PCR, DNA extraction or in clinic inspection comprises a base material 1 and a film 2, and there are a large number of recesses 3 in the base material 1. And after reaction liquid is put into the recesses 3, the film 2 is thermally bonded to or pressed against the material 1 to seal the recesses 3. Volume of the recesses 3 is made nearly equal to that of the reaction liquid to prevent evaporation of the reaction liquid by heat, and hence the volume of the recesses is set

preferably in the range of 10 μ 1-2ml. The base material 1 is desirably comprised of a material having high thermal conductivity and low water vapor permeability and **polyethylene** and **polypropylene** or the like are used.

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=> s 15

FILE 'EPO'

331 PCR
3 PCRS
334 PCR
(PCR OR PCRS)
16081 POST
6527 POSTS
20315 POST
(POST OR POSTS)
2655 CONSUMER
762 CONSUMERS
3158 CONSUMER
(CONSUMER OR CONSUMERS)
13814 RECYCL?
8 POST CONSUMER RECYCL?
(POST (W) CONSUMER (W) RECYCL?)
10579 POLYETHYLENE
147 POLYETHYLENES
10649 POLYETHYLENE
(POLYETHYLENE OR POLYETHYLENES)
5 (PCR OR POST CONSUMER RECYCL?) (P) POLYETHYLENE
105 EVOH
14831 ETHYLENE
39 ETHYLENES
14855 ETHYLENE
(ETHYLENE OR ETHYLENES)
15947 VINYL
11 VINYLS
15957 VINYL
(VINYL OR VINYLS)
18448 ALCOHOL
6031 ALCOHOLS
22909 ALCOHOL
(ALCOHOL OR ALCOHOLS)
308 ETHYLENE VINYL ALCOHOL
(ETHYLENE (W) VINYL (W) ALCOHOL)
L11 1 L2 AND (EVOH OR ETHYLENE VINYL ALCOHOL)

FILE 'JPO'

667 PCR
5 PCRS
668 PCR
(PCR OR PCRS)
19767 POST
2924 POSTS
21485 POST
(POST OR POSTS)
681 CONSUMER
344 CONSUMERS
980 CONSUMER
(CONSUMER OR CONSUMERS)
8748 RECYCL?
0 POST CONSUMER RECYCL?
(POST (W) CONSUMER (W) RECYCL?)
37003 POLYETHYLENE
142 POLYETHYLENES
37050 POLYETHYLENE

(POLYETHYLENE OR POLYETHYLENES)
3 (PCR OR POST CONSUMER RECYCL?) (P) POLYETHYLENE
237 EVOH
1 EVOHS
237 EVOH
(EVOH OR EVOHS)
42422 ETHYLENE
11 ETHYLENES
42429 ETHYLENE
(ETHYLENE OR ETHYLENES)
49570 VINYL
44 VINYLS
49592 VINYL
(VINYL OR VINYLS)
51729 ALCOHOL
3947 ALCOHOLS
54495 ALCOHOL
(ALCOHOL OR ALCOHOLS)
883 ETHYLENE VINYL ALCOHOL
(ETHYLENE (W) VINYL (W) ALCOHOL)
L12 0 L2 AND (EVOH OR ETHYLENE VINYL ALCOHOL)

TOTAL FOR ALL FILES
L13 1 L5

=> d 1-

1. W0009605110A2, Feb. 22, 1996, CONTAINER WITH RECYCLED PLASTIC; FEHN,
GREGORY M,
INT-CL: [6] B65D/
EUR-CL: B65D1/02

=> s 16

FILE 'EPO'
331 PCR
3 PCRS
334 PCR
(PCR OR PCRS)
16081 POST
6527 POSTS
20315 POST
(POST OR POSTS)
2655 CONSUMER
762 CONSUMERS
3158 CONSUMER
(CONSUMER OR CONSUMERS)
13814 RECYCL?
8 POST CONSUMER RECYCL?
(POST (W) CONSUMER (W) RECYCL?)
10579 POLYETHYLENE
147 POLYETHYLENES
10649 POLYETHYLENE
(POLYETHYLENE OR POLYETHYLENES)
5 (PCR OR POST CONSUMER RECYCL?) (P) POLYETHYLENE
8923 FLUORIN?
10579 POLYETHYLENE
147 POLYETHYLENES
10649 POLYETHYLENE
(POLYETHYLENE OR POLYETHYLENES)
93 FLUORIN? (P) POLYETHYLENE
L14 1 L2 AND FLUORIN? (P) POLYETHYLENE

FILE 'JPO'
667 PCR

5 PCRS
668 PCR
(PCR OR PCRS)
19767 POST
2924 POSTS
21485 POST
(POST OR POSTS)
681 CONSUMER
344 CONSUMERS
980 CONSUMER
(CONSUMER OR CONSUMERS)
8748 RECYCL?
0 POST CONSUMER RECYCL?
(POST (W) CONSUMER (W) RECYCL?)
37003 POLYETHYLENE
142 POLYETHYLENES
37050 POLYETHYLENE
(POLYETHYLENE OR POLYETHYLENES)
3 (PCR OR POST CONSUMER RECYCL?) (P) POLYETHYLENE
20427 FLUORIN?
37003 POLYETHYLENE
142 POLYETHYLENES
37050 POLYETHYLENE
(POLYETHYLENE OR POLYETHYLENES)
413 FLUORIN? (P) POLYETHYLENE
L15 0 L2 AND FLUORIN? (P) POLYETHYLENE

TOTAL FOR ALL FILES

L16 1 L6

=> d 1-

1. WO009605110A2, Feb. 22, 1996, CONTAINER WITH RECYCLED PLASTIC; FEHN,
GREGORY M,

INT-CL: [6] B65D/
EUR-CL: B65D1/02